



Atty. Docket No. DX0725K2

(Joint)

ASSIGNMENT

For good and valuable consideration, receipt of which is acknowledged, we,

- (1) Joseph A. Hedrick, residing in Plainsboro, New Jersey, USA
- (2) Theodore R. Sana, residing in East Palo Alto, California, USA
- (3) J. Fernando Bazan, residing in Menlo Park, California, USA
- (4) Robert A. Kastelein, residing in Redwood City, California, USA

hereby sell, assign and transfer to SCHERING CORPORATION, a corporation organized under the laws of the State of New Jersey, United States of America, having its principal office at Galloping Hill Road, Kenilworth, New Jersey 07033, United States of America, (hereinafter called "ASSIGNEE"), we each do hereby sell, assign and transfer to said ASSIGNEE each of our entire right, title and interest in all countries of the world in and to any and all of our inventions and discoveries in

MAMMALIAN CYTOKINES; RELATED REAGENTS AND METHODS

officially identified as Application No. <u>09/130.972</u> filed on <u>August 7, 1998</u>, (Attorney Docket Number DX0725K2) in and to the right to file patent applications in the name of ASSIGNEE, its designee, or in any or all of our names, at its election, on the aforesaid inventions and discoveries in all countries of the world, together with all rights of priority in the aforesaid countries deriving from the above-identified patent application under the International Convention for the Protection of Industrial Property, under the Inter-American Convention relating to Inventions, Patents, Designs and Industrial Models and under any other international arrangement to which the United States now is or hereafter becomes a signatory, in and to any and all Letters Patent that issue on any of the aforesaid patent applications, and in and to any continuations, divisions, reissues, renewals and extensions thereof of any of said Letters Patent, the same to be held and enjoyed by said ASSIGNEE, its successors, assigns and other legal representatives, to the full ends of the terms for which a Letters Patent therefor may be granted, as fully and entirely as the same would have been held and enjoyed by us if this assignment and sale had not been made.

And we hereby covenant and agree that we will at any time, upon the request and at the expense of ASSIGNEE, execute and deliver any and all documents that may be necessary or desirable to perfect the title to the foregoing inventions and discoveries, patent applications, and Letters Patent and continuations, divisions, reissues, renewals and extensions thereof in ASSIGNEE, its successors, assigns or other legal representatives, including the execution and procurement of any and all further documents evidencing this assignment and sale as may be necessary or desirable for recording the same in the Patent Office of any country concerned, and that we will, at any time, upon the request and the expense of ASSIGNEE, execute any additional or divisional applications for patents for said inventions and discoveries, or any part or parts thereof, and applications for patents of confirmation, registration and importation based on said Letters Patent and on Letters Patent issuing from said additional or divisional applications and reissues, renewals and extensions therefor, and will make all rightful oaths and declarations and do all lawful acts requisite for procuring the same or for aiding therein, without further compensation, but at the expense of ASSIGNEE, its successors, assigns or other legal representatives.

Executed this 9th day of November, 19 98. L.S.
Joseph A. Hedrick STATE OF NEW JERSEY)
COUNTY OF [[nion])
On 1998 before me, PATRICIA-CINA VELLA Notary Public
personally appeared, <u>Joseph A. Hedrick</u> , [] personally known to me or [] proved to me on the basis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.
 WITNESS my hand and official seal. NOTARY PUBLIC OF NEW JERSEY My Commission Expires Jan. 4, 1999 NOTARY PUBLIC SIGNATURE
Executed this st day of December , 19 98
thud L.S.
Theodore R. Sana
STATE OF CALIFORNIA) COUNTY OF SANTA CLARA)
On Dec. 1, 1998 before me, Lois E. Miller, Notary Public
personally appeared, <u>Theodore R. Sana</u> , <u>M</u> personally known to me <u>er [-] proved to me on the bacis of satisfactory evidence to be the person whose name is subscribed to the within instrument and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.</u>
WITNESS my hand and official seal. LOIS E. MILLER Commission # 1119024 Notory Public — Collifornia Sonta Clara County My Comm. Expires Dec 5, 2000
NOTARY PUBLIC SIGNATURE (SEAL)

Joseph A. HEDRICK, et al.; USSN: 09/130,972 Attorney Docket Number DX0725K2

Ex cuted this day of	Dec. 19 98
John K.	_ L.S.
J. Ferna	ndo Bazan -
STATE OF CALIFORNIA) COUNTY OF SANTA CLARA)	
On Dec. 1, 1998 before me,	Lois E. Miller, Notary Public
basis of satisfactory evidence to be the person v	ersonally known to me or [] proved to me on the whose name is subscribed to the within instrument same in his authorized capacity, and that by his e entity upon behalf of which the person acted,
WITNESS my hand and official seal.	LOIS E. MILLER Commission # 1119024 Notary Public — California
NOTARY PUBLIC SIGNATURE (SEA)	Sonta Clara County
	0.5
Executed this day of	<u>DECEMBER</u> , 19 <u>98</u> . L.S.
Robert	A. Kastelein
STATE OF CALIFORNIA) COUNTY OF SANTA CLARA)	
On Dec. 1, 1998 before me,	Lois E. Miller. Notary Public
basis of satisfactory evidence to be the person	personally known to me or [] proved to me on the whose name is subscribed to the within instrument e same in his authorized capacity, and that by his he entity upon behalf of which the person acted,
WITNESS my hand and official seal.	LOS E. MILLER Commission # 1119024
Jamille (SEA	Notary Public — California Santa Clara County My Comm. Expires Dec 5, 2000
NOTARY PUBLIC SIGNATURE	

Joseph A. HEDRICK, et al.; USSN: 09/130,972 Attorney Docket Number DX0725K2 3 of 3



<u>DECLARATION AND POWER OF</u> ATTORNEY FOR PATENT APPLICATION

Attorney's Docket No. <u>DX0725K2</u>

named inventor, I hereby declare that:

My residence, post office address and citizenship are as stated below next to my name;

I believe I am the original, first sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

"HUMAN CYTOKINES: RELATED REAGENTS AND METHODS"

HUMAN	CITORIN	CO. KELAIE	D KEAGENIS	WIND MIDITI	<u>000</u>
the specification of which					•
is attached hereto.					
X was filed on Augu	st 7, 1998	_ as Application	on Serial No.	09/1	30,972
I hereby state that I have r including the claims, as ar	eviewed and mended by a	d understand thany amendmen	ne contents of the treferred to abo	e above-ident ove.	ified specification,
I acknowledge the duty to in accordance with Title 3	disclose inf 37, Code of	formation whic Federal Regula	h is material to ations, §1.56(a)	the examinati	on of this application
I hereby claim foreign pri application(s) for patent of foreign application for patent on which priority is claim	or inventor's tent or inver	certificate liste	ed below and ha	ve also identi	ned below any
Prior Foreign Application(s):					Priority Claimed
(Number)	(Co	ountry)	(Day/Mont)	n/Year Filed)	Yes or No
I hereby claim the benefit provisional application(s)	under Title listed belov	: 35, United Sta w:	ates Code, §119	(e) of any Un	ited States
60/044,165		il 21, 1997			
(Application Number)	(Fi	iling Date)		•	
60/055,111		ust 6, 1997			
(Application Number)	(Fi	iling Date)			•
			_		4 77 1 1 0

I hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose material information as

Joseph A. HEDRICK, et al., USSN No.: 09/130,972 Filed August 7, 1998

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defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

09/097,976	June 16, 1998	pending
(Application Serial No.)	(Filing Date)	(Status - patented, pending, abandoned)
09/062,866	April 20, 1998	pending
(Application Serial No.)	(Filing Date)	(Status - patented, pending, abandoned)

Power of Attorney: As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in Patent and Trademark Office connected therewith. (List name and registration number.)

Carl W. Battle Edwin P. Ching Eric S. Dicker Norman C. Dulak Cynthia L. Foulke Robert A. Franks James M. Gould Richard J. Grochala Thomas D. Hoffman Henry C. Jeanette Susan Lee	Reg. No. 30,731 Reg. No. 34,090 Reg. No. 31,699 Reg. No. 31,608 Reg. No. 32,364 Reg. No. 28,605 Reg. No. 33,702 Reg. No. 31,518 Reg. No. 28,221 Reg. No. 30,856 Reg. No. 30,653	Anita W. Magatti John J. Maitner Joseph T. Majka Arthur Mann Edward H. Mazer Jaye P. McLaughlin Richard B. Murphy James R. Nelson Immac J. Thampoe Paul A. Thompson Donald W. Wyatt	Reg. No. 29,825 Reg. No. 25,636 Reg. No. 30,570 Reg. No. 35,598 Reg. No. 27,573 Reg. No. 41,211 Reg. No. 35,298 Reg. No. 27,929 Reg. No. 36,322 Reg. No. 35,385 Reg. No. 40,879
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Send Correspondence to:	Correspondence to: Direct Telephone Calls to:		
Edwin P. Ching DNAX Research Institute 901 California Avenue Palo Alto, CA 94304-1104	Name: Telephone No.: Facsimile No.:	Edwin P. Ching (650) 496-1204 (650) 496-1200	

FULL NAME OF 1ST	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
OR SOLE INVENTOR	Hedrick	Joseph	Α
RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	Plainsboro	New Jersey	USA
POST OFFICE ADDRESS	POST OFFICE ADDRESS	CITY	STATE & ZIP CODE/COUNTRY
	52-08 Quail Ridge Drive	Plainsboro	NJ 08536 / USA

			CTCOVED CHUTCHINIANCE
FULL NAME OF 2ND	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
JOINT INVENTOR	Sana	Theodore	R.
RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	East Palo Alto	California	Iran
POST OFFICE ADDRESS	POST OFFICE ADDRESS	CITY	STATE & ZIP CODE/COUNTRY
	1919 Manhattan Avenue #4	East Palo Alto	CA 94303 / USA

FULL NAME OF 3RD	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
JOINT INVENTOR	Bazan	J	Fernando
RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	Menlo Park	California	USA
POST OFFICE ADDRESS	POST OFFICE ADDRESS	CITY	STATE & ZIP CODE/COUNTRY
	775 University Drive	Menlo Park	CA 94025 / USA

FULL NAME OF 4TH JOINT INVENTOR	FAMILY NAME	FIRST GIVEN NAME	SECOND GIVEN NAME
301 (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Kastelein	Robert	A.
RESIDENCE & CITIZENSHIP	CITY	STATE OR FOREIGN COUNTRY	COUNTRY OF CITIZENSHIP
	Redwood City	California	The Netherlands
POST OFFICE ADDRESS	POST OFFICE ADDRESS	CITY	STATE & ZIP CODE/COUNTRY
	463 Summit Drive	Redwood City	CA 94062 / USA

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signature of First Inventor	Signature of Second Inventor	Signature of Third Inventor
Joseph A. Hedrick	Theodore R. Sana	/
Date 9.17.98	Date / 9/22/98	Dalle / 9/21/98

Signature of Fourth Inventor	
Matilein	
Robert A. Kastelein	
Date 9.12.98	

Joseph A. HEDRICK, et al., USSN No.: 09/130,972 Filed August 7, 1998